

# ***MEDICAID BLOOD LEAD TESTING***

*Michigan Department  
of Community Health*



**JULY 2006**

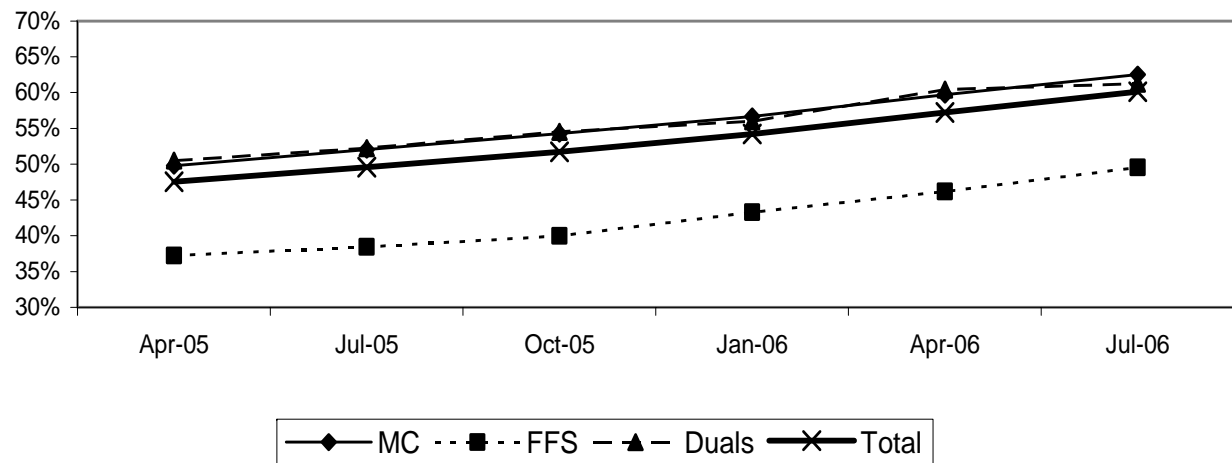
# Blood Lead Testing Methodology

- Children must have been eligible for one of the following programs in July 2006
  - Medicaid Managed Care (MC)
    - enrolled in a Medicaid Health Plan (MHP)
  - Medicaid Fee-for-Service (FFS)
    - eligible for Medicaid Only FFS coverage
  - Medicaid and CSHCS Dual Eligible (Duals)
    - dually eligible for both Medicaid and CSHCS
- Blood lead testing results include children tested:
  - on or before indicated birthday for 2 and 3 year olds
  - at any time between ages 1 to 6
- Unique Client Identifier (UCI) used to establish link between Medicaid and lead databases.

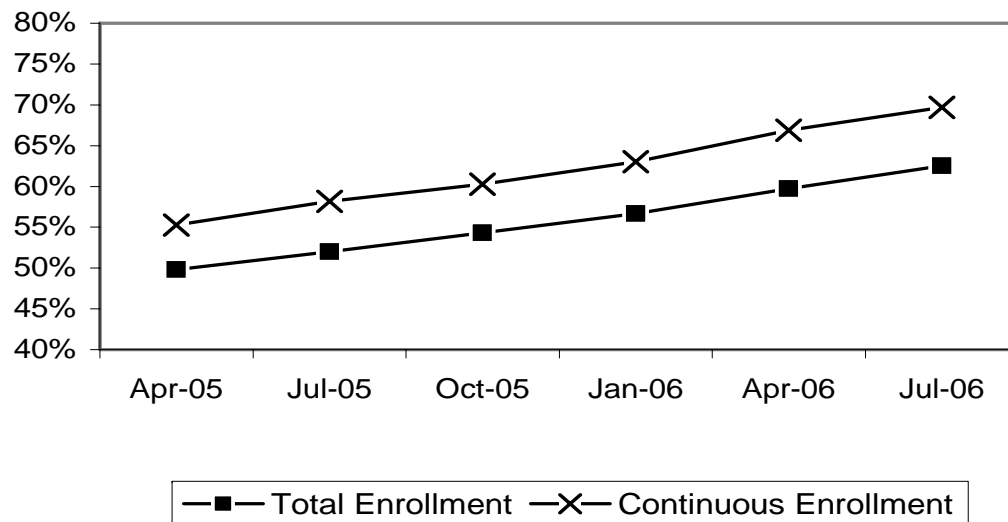
## Blood Lead Testing Summary

- 2 year old children tested on or before their 2nd birthday
  - 54% Statewide
  - 66% City of Detroit
  - 56% Statewide for Medicaid MC
  - 45% Statewide for Medicaid Only FFS Eligibles
  - 57% Statewide for CSHCS Duals
- 3 year old children tested on or before their 3rd birthday
  - 60% Statewide
  - 76% City of Detroit
  - 63% Statewide for Medicaid MC
    - 70% Statewide for Medicaid MC with 12-Month Continuous Enrollment
  - 50% Statewide for Medicaid Only FFS Eligibles
  - 61% Statewide for CSHCS Duals

**Children Receiving at Least One Lead Test on or before  
Third Birthday by Program Eligibility**

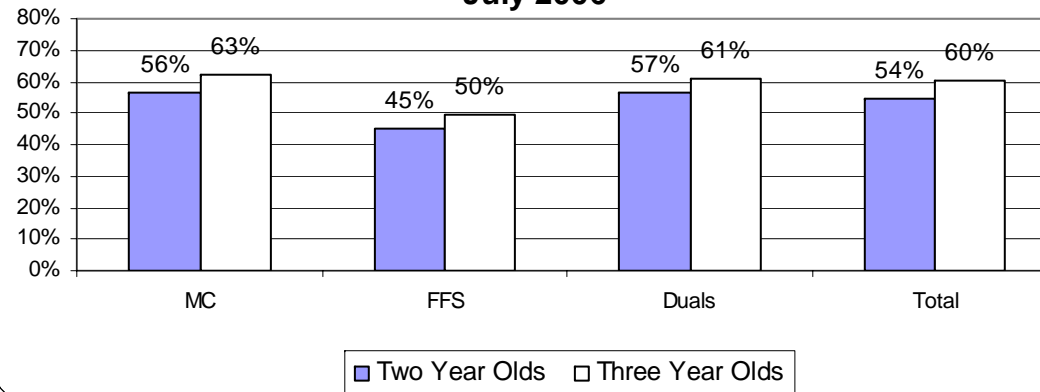


### Managed Care Enrolled Children Receiving at Least One Lead Test on or before Third Birthday

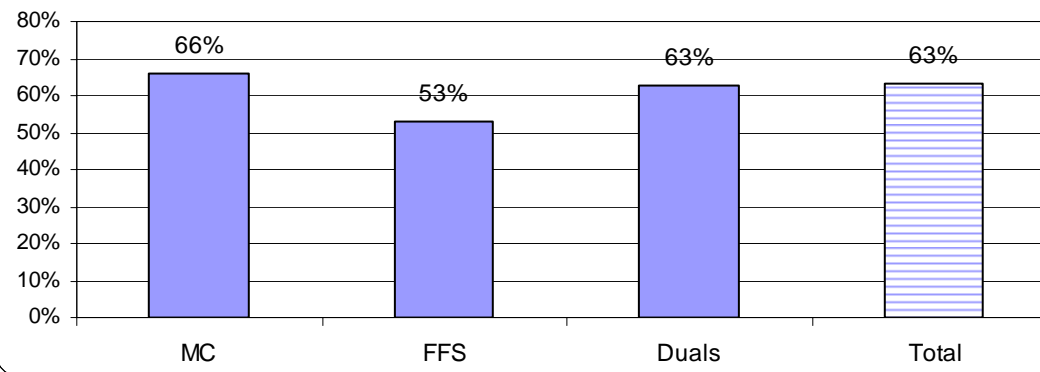


- Total Enrollment
  - Enrolled in measurement month
- Continuous Enrollment
  - Based on MMIS eligibility system
  - Enrolled in same health plan for the measurement month and 12 months preceding 3rd birthday, with a 1-month allowable gap.

**Children Receiving at Least One Lead Test on or before  
Indicated Birthday by Program Eligibility  
July 2006**



**Children Ages One to Six with at Least One Blood Lead  
Test by Program Eligibility  
July 2006**



**Table 1. Percent of Children with at Least One Blood Lead Test on or Before their Second Birthday**

Program	Jul-05	Aug-05	Sep-05	Oct-05	Nov-05	Dec-05	Jan-06	Feb-06	Mar-06	Apr-06	May-06	Jun-06	Jul-06
MC	47.4%	48.4%	49.4%	50.3%	51.1%	51.8%	52.6%	53.3%	54.0%	54.8%	55.5%	56.0%	56.4%
FFS	36.4%	37.3%	38.2%	38.7%	40.2%	40.2%	41.5%	43.0%	43.2%	44.3%	44.6%	45.4%	45.3%
Duals	47.7%	48.0%	49.0%	50.8%	51.8%	52.1%	52.3%	52.5%	54.4%	54.2%	56.1%	55.6%	56.7%
Total	<b>45.4%</b>	<b>46.4%</b>	<b>47.4%</b>	<b>48.2%</b>	<b>49.1%</b>	<b>49.7%</b>	<b>50.6%</b>	<b>51.4%</b>	<b>52.0%</b>	<b>52.8%</b>	<b>53.5%</b>	<b>53.9%</b>	<b>54.4%</b>

**Table 2. Percent of Children with at Least One Blood Lead Test on or Before their Third Birthday**

Program	Jul-05	Aug-05	Sep-05	Oct-05	Nov-05	Dec-05	Jan-06	Feb-06	Mar-06	Apr-06	May-06	Jun-06	Jul-06
MC	52.0%	52.9%	53.7%	54.3%	55.2%	56.1%	56.7%	57.7%	58.7%	59.7%	60.9%	61.8%	62.5%
FFS	38.4%	38.6%	39.7%	40.0%	41.0%	41.6%	43.3%	44.2%	45.8%	46.2%	46.6%	48.7%	49.6%
Duals	52.2%	53.9%	54.4%	54.6%	55.0%	55.5%	56.0%	57.1%	59.2%	60.5%	59.6%	60.0%	61.2%
Total	<b>49.6%</b>	<b>50.4%</b>	<b>51.2%</b>	<b>51.7%</b>	<b>52.6%</b>	<b>53.4%</b>	<b>54.2%</b>	<b>55.2%</b>	<b>56.3%</b>	<b>57.2%</b>	<b>58.2%</b>	<b>59.3%</b>	<b>60.1%</b>

**Table 3. Percent of Children Ages One to Six with at Least One Blood Lead Test**

Program	Jul-05	Aug-05	Sep-05	Oct-05	Nov-05	Dec-05	Jan-06	Feb-06	Mar-06	Apr-06	May-06	Jun-06	Jul-06
MC	58.9%	58.6%	59.7%	60.8%	62.4%	62.9%	63.7%	64.1%	64.1%	64.9%	65.1%	65.5%	65.9%
FFS	45.3%	44.8%	45.3%	45.8%	47.4%	47.9%	49.2%	50.1%	50.9%	51.7%	51.8%	52.6%	52.8%
Duals	55.6%	55.5%	56.6%	57.3%	58.6%	59.0%	59.9%	59.6%	59.8%	61.2%	61.6%	62.3%	62.5%
Total	<b>56.3%</b>	<b>56.1%</b>	<b>57.0%</b>	<b>58.0%</b>	<b>59.6%</b>	<b>60.1%</b>	<b>60.9%</b>	<b>61.3%</b>	<b>61.6%</b>	<b>62.4%</b>	<b>62.6%</b>	<b>63.0%</b>	<b>63.4%</b>

**Table 4. Statewide Blood Lead Testing of Two and Three Year Old Children for All Programs**

July 2006

County	2 Years of Age			3 Years of Age		
	Eligibles	Eligibles with at least 1 test on or before their 2nd birthday	Percent of Eligibles with at least 1 test on or before their 2nd birthday	Eligibles	Eligibles with at least 1 test on or before their 3rd birthday	Percent of Eligibles with at least 1 test on or before their 3rd birthday
Alcona	39	18	46%	48	28	58%
Alger	31	25	81%	37	30	81%
Allegan	570	298	52%	512	284	55%
Alpena	142	87	61%	136	93	68%
Antrim	136	66	49%	133	52	39%
Arenac	103	44	43%	80	36	45%
Baraga	45	15	33%	37	18	49%
Barry	254	173	68%	257	188	73%
Bay	573	341	60%	523	346	66%
Benzie	100	51	51%	86	35	41%
Berrien	996	568	57%	1,003	614	61%
Branch	265	102	38%	263	135	51%
Calhoun	953	604	63%	908	630	69%
Cass	300	143	48%	246	114	46%
Charlevoix	114	68	60%	105	45	43%
Cheboygan	146	64	44%	139	67	48%
Chippewa	199	116	58%	182	124	68%
Clare	178	70	39%	186	77	41%
Clinton	225	84	37%	226	92	41%
Crawford	77	30	39%	70	22	31%
Delta	198	157	79%	188	147	78%
Dickinson	146	42	29%	129	38	29%
Eaton	419	257	61%	393	252	64%
Emmet	178	97	54%	191	76	40%
Genesee	2,942	1,482	50%	2,858	1,563	55%
Gladwin	105	27	26%	143	37	26%
Gogebic	82	27	33%	75	30	40%
Grand Traverse	379	64	17%	378	57	15%
Griatiot	256	96	38%	215	89	41%
Hillsdale	282	135	48%	228	129	57%
Houghton	172	86	50%	151	68	45%
Huron	149	64	43%	169	94	56%
Ingham	1,503	680	45%	1,392	738	53%
Ionia	313	135	43%	289	133	46%
Iosco	142	53	37%	136	66	49%
Iron	50	25	50%	54	20	37%
Isabella	325	84	26%	282	97	34%
Jackson	909	555	61%	870	526	60%
Kalamazoo	1,322	711	54%	1,155	677	59%
Kalkaska	127	42	33%	118	46	39%
Kent	3,517	2,713	77%	3,150	2,477	79%
Keweenaw	7	3	43%	12	7	58%

County	2 Years of Age			3 Years of Age		
	Eligibles	Eligibles with at least 1 test on or before their 2nd birthday	Percent of Eligibles with at least 1 test on or before their 2nd birthday	Eligibles	Eligibles with at least 1 test on or before their 3rd birthday	Percent of Eligibles with at least 1 test on or before their 3rd birthday
Lake	69	43	62%	66	37	56%
Lapeer	393	112	28%	346	130	38%
Leelanau	31	12	39%	53	25	47%
Lenawee	439	205	47%	462	254	55%
Livingston	343	127	37%	276	94	34%
Luce	36	25	69%	29	23	79%
Mackinac	46	28	61%	36	30	83%
Macomb	2,671	1,153	43%	2,618	1,345	51%
Manistee	103	71	69%	124	78	63%
Marquette	258	134	52%	257	132	51%
Mason	175	109	62%	147	73	50%
Mecosta	215	140	65%	203	114	56%
Menominee	107	80	75%	101	61	60%
Midland	358	116	32%	323	118	37%
Missaukee	77	21	27%	66	15	23%
Monroe	527	224	43%	536	290	54%
Montcalm	370	193	52%	348	181	52%
Montmorency	55	36	65%	51	28	55%
Muskegon	1,201	815	68%	1,150	837	73%
Newaygo	290	178	61%	279	180	65%
Oakland	2,912	1,416	49%	2,752	1,587	58%
Oceana	230	160	70%	217	155	71%
Ogemaw	134	44	33%	127	49	39%
Ontonagon	22	6	27%	24	13	54%
Osceola	131	61	47%	129	61	47%
Oscoda	43	14	33%	44	15	34%
Otsego	129	58	45%	124	50	40%
Ottawa	935	430	46%	860	407	47%
Presque Isle	54	25	46%	57	31	54%
Roscommon	136	25	18%	119	26	22%
Saginaw	1,306	875	67%	1,225	842	69%
St Clair	826	384	46%	723	366	51%
St Joseph	463	271	59%	420	245	58%
Sanilac	271	129	48%	220	132	60%
Schoolcraft	49	36	73%	40	35	88%
Shiawassee	371	183	49%	355	182	51%
Tuscola	315	146	46%	303	159	52%
Van Buren	561	255	45%	479	225	47%
Washtenaw	1,020	459	45%	939	467	50%
Wayne ex Detroit	4,103	1,853	45%	4,016	2,221	55%
Detroit, City of	9,463	6,207	66%	9,175	6,939	76%
Wexford	208	79	38%	227	85	37%
<b>MICHIGAN</b>	<b>50,415</b>	<b>27,440</b>	<b>54%</b>	<b>47,799</b>	<b>28,734</b>	<b>60%</b>



**Table 5. Statewide Blood Lead Testing of Two and Three Year Old Children Enrolled in Managed Care**  
**July 2006**

County	2 Years of Age			3 Years of Age		
	Eligibles	Eligibles with at least 1 test on or before their 2nd birthday	Percent of Eligibles with at least 1 test on or before their 2nd birthday	Eligibles	Eligibles with at least 1 test on or before their 3rd birthday	Percent of Eligibles with at least 1 test on or before their 3rd birthday
Alcona	33	15	45%	41	24	59%
Alger	24	19	79%	31	26	84%
Allegan	426	234	55%	393	238	61%
Alpena	75	48	64%	84	61	73%
Antrim	45	21	47%	53	21	40%
Arenac	76	32	42%	60	27	45%
Baraga	27	9	33%	21	12	57%
Barry	129	95	74%	130	102	78%
Bay	462	286	62%	433	293	68%
Benzie	75	41	55%	61	27	44%
Berrien	798	481	60%	827	519	63%
Branch	225	91	40%	209	108	52%
Calhoun	819	523	64%	774	540	70%
Cass	228	114	50%	193	93	48%
Charlevoix	64	42	66%	55	23	42%
Cheboygan	0	0	NA	0	0	NA
Chippewa	116	64	55%	114	78	68%
Clare	6	1	17%	3	1	33%
Clinton	189	73	39%	170	74	44%
Crawford	60	25	42%	55	17	31%
Delta	165	131	79%	144	116	81%
Dickinson	112	33	29%	92	22	24%
Eaton	332	203	61%	310	203	65%
Emmet	0	0	NA	0	0	NA
Genesee	2,510	1,282	51%	2,399	1,336	56%
Gladwin	81	20	25%	113	32	28%
Gogebic	65	25	38%	63	24	38%
Grand Traverse	131	20	15%	133	16	12%
Gratiot	188	64	34%	168	75	45%
Hillsdale	223	110	49%	183	103	56%
Houghton	148	73	49%	125	56	45%
Huron	116	55	47%	124	74	60%
Ingham	1,239	585	47%	1,155	621	54%
Ionia	231	94	41%	208	90	43%
Iosco	118	45	38%	118	56	47%
Iron	40	17	43%	45	16	36%
Isabella	117	24	21%	100	29	29%
Jackson	749	481	64%	710	451	64%
Kalamazoo	1,093	602	55%	965	577	60%
Kalkaska	9	1	11%	5	3	60%
Kent	2,930	2,318	79%	2,589	2,071	80%
Keweenaw	5	2	40%	11	6	55%

County	2 Years of Age			3 Years of Age		
	Eligibles	Eligibles with at least 1 test on or before their 2nd birthday	Percent of Eligibles with at least 1 test on or before their 2nd birthday	Eligibles	Eligibles with at least 1 test on or before their 3rd birthday	Percent of Eligibles with at least 1 test on or before their 3rd birthday
Lake	50	33	66%	52	29	56%
Lapeer	319	97	30%	269	109	41%
Leelanau	13	6	46%	26	13	50%
Lenawee	355	180	51%	342	196	57%
Livingston	273	108	40%	212	78	37%
Luce	32	21	66%	20	17	85%
Mackinac	29	16	55%	19	14	74%
Macomb	2,245	996	44%	2,173	1,141	53%
Manistee	78	54	69%	97	64	66%
Marquette	214	114	53%	208	102	49%
Mason	8	6	75%	3	1	33%
Mecosta	170	110	65%	162	88	54%
Menominee	82	63	77%	74	43	58%
Midland	6	0	0%	14	5	36%
Missaukee	60	18	30%	46	12	26%
Monroe	434	194	45%	429	249	58%
Montcalm	293	154	53%	257	131	51%
Montmorency	45	30	67%	42	25	60%
Muskegon	992	685	69%	935	692	74%
Newaygo	224	145	65%	223	149	67%
Oakland	2,435	1,216	50%	2,291	1,373	60%
Oceana	160	121	76%	150	111	74%
Ogemaw	106	34	32%	101	37	37%
Ontonagon	16	4	25%	20	12	60%
Osceola	96	44	46%	90	48	53%
Oscoda	37	13	35%	34	13	38%
Otsego	69	34	49%	61	25	41%
Ottawa	691	331	48%	673	339	50%
Presque Isle	43	25	58%	43	25	58%
Roscommon	110	22	20%	100	20	20%
Saginaw	1,103	754	68%	1,039	725	70%
St Clair	657	315	48%	577	295	51%
St Joseph	366	219	60%	326	199	61%
Sanilac	213	103	48%	168	103	61%
Schoolcraft	40	30	75%	35	30	86%
Shiawassee	294	150	51%	290	154	53%
Tuscola	247	112	45%	221	118	53%
Van Buren	426	200	47%	359	181	50%
Washtenaw	879	415	47%	769	391	51%
Wayne ex Detroit	3,476	1,610	46%	3,426	1,949	57%
Detroit, City of	8,292	5,495	66%	8,078	6,163	76%
Wexford	63	28	44%	80	28	35%
<b>MICHIGAN</b>	<b>40,220</b>	<b>22,704</b>	<b>56%</b>	<b>38,001</b>	<b>23,758</b>	<b>63%</b>

**Table 6. Statewide Blood Lead Testing of Two and Three Year Old Children Eligible for Medicaid Only Fee-for-Service Coverage**  
**July 2006**

County	2 Years of Age			3 Years of Age		
	Eligibles	Eligibles with at least 1 test on or before their 2nd birthday	Percent of Eligibles with at least 1 test on or before their 2nd birthday	Eligibles	Eligibles with at least 1 test on or before their 3rd birthday	Percent of Eligibles with at least 1 test on or before their 3rd birthday
Alcona	5	3	60%	7	4	57%
Alger	6	5	83%	6	4	67%
Allegan	131	61	47%	103	37	36%
Alpena	61	35	57%	49	30	61%
Antrim	91	45	49%	76	31	41%
Arenac	25	11	44%	16	6	38%
Baraga	17	5	29%	16	6	38%
Barry	120	74	62%	122	83	68%
Bay	99	47	47%	89	52	58%
Benzie	20	7	35%	21	7	33%
Berrien	174	71	41%	156	85	54%
Branch	36	8	22%	45	22	49%
Calhoun	116	70	60%	119	81	68%
Cass	66	27	41%	42	14	33%
Charlevoix	45	22	49%	44	18	41%
Cheboygan	144	63	44%	137	66	48%
Chippewa	78	49	63%	64	43	67%
Clare	168	69	41%	181	75	41%
Clinton	35	11	31%	49	17	35%
Crawford	17	5	29%	13	3	23%
Delta	28	22	79%	37	26	70%
Dickinson	33	9	27%	32	14	44%
Eaton	77	44	57%	75	45	60%
Emmet	170	93	55%	187	73	39%
Genesee	386	165	43%	400	191	48%
Gladwin	21	6	29%	26	4	15%
Gogebic	16	2	13%	10	6	60%
Grand Traverse	241	44	18%	233	38	16%
Gratiot	60	26	43%	41	13	32%
Hillsdale	45	17	38%	41	22	54%
Houghton	23	12	52%	25	12	48%
Huron	28	9	32%	44	20	45%
Ingham	224	82	37%	213	102	48%
Ionia	79	41	52%	77	40	52%
Iosco	22	8	36%	16	9	56%
Iron	8	7	88%	5	1	20%
Isabella	198	58	29%	174	61	35%
Jackson	134	65	49%	145	66	46%
Kalamazoo	190	87	46%	162	80	49%
Kalkaska	113	38	34%	109	42	39%
Kent	517	343	66%	498	357	72%
Keweenaw	1	0	0%	1	1	100%

County	2 Years of Age			3 Years of Age		
	Eligibles	Eligibles with at least 1 test on or before their 2nd birthday	Percent of Eligibles with at least 1 test on or before their 2nd birthday	Eligibles	Eligibles with at least 1 test on or before their 3rd birthday	Percent of Eligibles with at least 1 test on or before their 3rd birthday
Lake	18	9	50%	13	7	54%
Lapeer	66	12	18%	69	19	28%
Leelanau	18	6	33%	26	12	46%
Lenawee	77	21	27%	111	53	48%
Livingston	62	16	26%	59	16	27%
Luce	4	4	100%	8	5	63%
Mackinac	16	11	69%	17	16	94%
Macomb	392	146	37%	378	171	45%
Manistee	23	16	70%	26	13	50%
Marquette	38	15	39%	41	26	63%
Mason	164	101	62%	142	72	51%
Mecosta	42	28	67%	36	22	61%
Menominee	24	16	67%	26	18	69%
Midland	341	112	33%	297	108	36%
Missaukee	14	2	14%	18	3	17%
Monroe	81	26	32%	92	32	35%
Montcalm	67	31	46%	83	45	54%
Montmorency	9	6	67%	8	3	38%
Muskegon	185	112	61%	182	118	65%
Newaygo	60	28	47%	51	27	53%
Oakland	427	168	39%	411	192	47%
Oceana	66	36	55%	63	41	65%
Ogemaw	26	9	35%	22	9	41%
Ontonagon	5	2	40%	3	1	33%
Osceola	27	15	56%	37	12	32%
Oscoda	5	1	20%	8	2	25%
Otsego	55	23	42%	56	20	36%
Ottawa	223	86	39%	171	62	36%
Presque Isle	9	0	0%	11	5	45%
Roscommon	23	3	13%	18	6	33%
Saginaw	169	98	58%	157	98	62%
St Clair	142	58	41%	132	63	48%
St Joseph	88	48	55%	80	39	49%
Sanilac	54	24	44%	48	26	54%
Schoolcraft	9	6	67%	4	4	100%
Shiawassee	70	29	41%	56	23	41%
Tuscola	60	30	50%	68	32	47%
Van Buren	119	48	40%	114	41	36%
Washtenaw	122	35	29%	151	65	43%
Wayne ex Detroit	538	200	37%	507	220	43%
Detroit, City of	1,015	597	59%	922	637	69%
Wexford	140	50	36%	143	56	39%
<b>MICHIGAN</b>	<b>9,161</b>	<b>4,150</b>	<b>45%</b>	<b>8,771</b>	<b>4,347</b>	<b>50%</b>

**Table 7. Blood Lead Testing of Three Year Old Children by Length of Enrollment  
July 2006**

Health Plan Name	Total Enrollment			Continuous Enrollment			
	Eligibles	Eligibles with at least one lead test on or before 3rd birthday	Percent of Eligibles with at least one lead test on or before 3rd birthday	Eligibles	Eligibles with at least one lead test on or before 3rd birthday	Percent of Eligibles with at least one lead test on or before 3rd birthday	Percentage Point Difference with Continuous Enrollment
CAPE Health Plan	3,915	2,503	64%	2,210	1,576	71%	7
Community Choice Michigan	1,877	1,070	57%	1,010	680	67%	10
Great Lakes Health Plan, Inc.	4,394	2,682	61%	2,443	1,621	66%	5
Health Plan Of Michigan, Inc.	4,804	2,983	62%	2,450	1,770	72%	10
HealthPlus Partners, Inc.	2,631	1,657	63%	1,665	1,156	69%	6
M-Caid	802	385	48%	407	241	59%	11
McLaren Health Plan	2,311	1,120	48%	1,157	620	54%	5
Midwest Health Plan	2,503	1,740	70%	1,406	1,112	79%	10
Molina Healthcare of Michigan	5,310	3,388	64%	3,157	2,149	68%	4
OmniCare Health Plan	1,929	1,409	73%	1,254	963	77%	4
PHP-MM Family Care	688	390	57%	433	281	65%	8
PHP of Southwest Michigan	1,658	1,043	63%	1,070	755	71%	8
Priority Health Government Programs, Inc.	2,135	1,479	69%	1,127	879	78%	9
Total Health Care	2,017	1,332	66%	1,173	840	72%	6
Upper Peninsula Health Plan	1,027	577	56%	676	431	64%	8
<b>Managed Care Totals/Percent</b>	<b>38,001</b>	<b>23,758</b>	<b>63%</b>	<b>21,638</b>	<b>15,074</b>	<b>70%</b>	<b>7</b>
<b>Current Performance Monitoring Standard</b>			<b>55%</b>	<b>60%</b>			

FFS (Title XIX only)	8,771	4,347	50%	2,954	1,501	51%	1
FFS (Title V/XIX)	1,020	626	61%	874	547	63%	1
<b>FFS Totals (Title XIX and V/XIX)</b>	<b>9,791</b>	<b>4,973</b>	<b>51%</b>	<b>3,828</b>	<b>2,048</b>	<b>54%</b>	<b>3</b>

**Total Enrollment:**

- Based on MMIS eligibility system
- Enrolled in plan (health plan or FFS) for the measurement month

**Continuous Enrollment:**

- Based on MMIS eligibility system
- Enrolled in same plan (health plan or FFS) for the measurement month and 12 months preceding 3rd birthday, with 1-month allowable gap